

10/849,998

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FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
Zhongde Wang	7293-086	8764	

7590 03/22/2005

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FILING DATE

05/19/2004

ART UNIT PAPER NUMBER
2851

EXAMINER

MAHONEY, CHRISTOPHER E

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)		
Office Action Summary		10/849,99	8	WANG ET AL.		
		Examiner		Art Unit		
			er E. Mahoney	2851		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE MA - Extension after SIX - If the pe - If NO pe - Failure to	RTENED STATUTORY PERIOD FOR ALING DATE OF THIS COMMUNICATION of time may be available under the provisions of the first form the mailing date of this community of the first for reply specified above is less than thirty (30) of the first for reply is specified above, the maximum statute to reply within the set or extended period for reply will by received by the Office later than three months after patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no ever cation. lays, a reply within the statuory period will apply and with systems.	nt, however, may a reply be tim tory minimum of thirty (30) days I expire SIX (6) MONTHS from ication to become ABANDONE	nety filed s will be considered timel the mailing date of this c O (35 U.S.C. § 133).	ly. ommunication.	
Status						
1)⊠ R	esponsive to communication(s) filed	on <i>19 Mav 2004</i> .				
, 	This action is FINAL . 2b)⊠ This action is non-final.					
3) <u> </u>	,					
Disposition	າ of Claims					
4a 5)□ C 6)図 C 7)図 C	laim(s) <u>1-36</u> is/are pending in the apparation of the above claim(s) is/are laim(s) is/are allowed. laim(s) <u>1,4-8,10,13-19,22-28 and 31-laim(s) 2,3,9,11,12,20,21,29 and 30 is laim(s) are subject to restriction</u>	withdrawn from cor 36 is/are rejected. s/are objected to.		·		
Application	n Papers					
10) ⊠ Tr A R	ne specification is objected to by the Ene drawing(s) filed on 19 May 2004 is pplicant may not request that any objection eplacement drawing sheet(s) including the oath or declaration is objected to be	/are: a)⊠ accepte on to the drawing(s) b e correction is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 Cl		
Priority un	der 35 U.S.C. & 119					
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) Information	of Draftsperson's Patent Drawing Review (PTC tion Disclosure Statement(s) (PTO-1449 or PT lo(s)/Mail Date		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		O-152)	

DETAILED ACTION

Claim Objections

Claims 2-3, 9, 11-12, 20-21, 25, 29-30 and 34 are objected to because of the following informalities:

Regarding claims 2-3, 11-12, 20-21, and 29-30, while xp[x, y] and yp[x, y] are defined by the equations, what x, p, xp and yp are is not defined in the claims. While it is understood that x and y are coordinates for a projected image, exactly what these elements stand for should be defined in the same manner the elements (such as d, db and βh) are defined in the independent claims.

Regarding claim 9, 25 and 34, the examiner believes "title" should be "tilt".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 4, 6, 10, 13, 15-16, 19, 22-23, 26-28, 31-32 and 35-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Kawashima. Kawashima teaches an image projector to project an image a set of inherent parameters including a horizontal resolution, a vertical resolution, a depth (L1, S502, S506), and a vertical offset (L4 or Δy); a receiver 2 to receive a

vertical tilt angle and a horizontal tilt angle, and a corrector 5 to compute keystone correction corner points for the image using the set of inherent parameters and the tilt angles.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-8, 17-18, 24-25 and 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawashima. It would have been obvious to one of ordinary skill in the art at the time the invention was made to perform the horizontal and vertical scaling in either order for the purpose of starting the scaling since both must be done and there is no advantage of doing one before the other.

Claims 5 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawashima in view of Su (U.S. Patent No. 6,686,973). Kawashima teaches the salient features of the claimed invention except for the receiver determining the tilt angles. Su teaches in the abstract that it was known to utilize a receiver which determined tilt angles. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the features taught by Su for the purpose of automating the angle determination process. The applicant should note that it has been held that automation of a known manual process involves only routine skill in the art. In re Venner, 120 USPQ 192.

Allowable Subject Matter

Claims 2-3, 9, 11-12, 20-21, 29-30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher E. Mahoney whose telephone number is (571) 272-2122. The examiner can normally be reached on 8:30AM-5PM, Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher E Mahoney

Primary Examiner

Art Unit 2851